

Parker Hannifin's Automation Group Offers A Total Solution

As a member of the Automation Group of Parker Hannifin, Compumotor's solution approach broadens with complimentary product and technology offerings from other Parker divisions. The Automation Group is comprised of four divisions including CTC, Daedal, AAD, and Compumotor offering the widest array of products in the motion control industry.

Each division has quality products manufactured and produced at their respective locations. Parker's engineers and management work together to tightly couple products to provide seamless integration for your next application.

- **CTC**--As the newest member of the Automation Group, CTC bundles a tightly integrated Human Machine Interface and Soft Control solution with an open PC hardware platform. Now there is a single source that provides affordable integration of factory-hardened PC workstations with the industry's leading HMI and Control software.
- **Daedal**--Provides unmatched precision and dependability for high speed performance for positioning tables and positioning systems. Offers a full spectrum of bearing technologies, drive systems, and positioner designs that allow you to match table performance to your design requirements and budget.
- **AAD**--A leading producer of pneumatic, hydraulic, and electromechanical products. Products include ParFrame aluminum framing systems, electric cylinders, pneumatic positioning systems, and hydraulic and pneumatic rotary actuators.
- **Compumotor**--Offers a full line of rugged multi-axis motion controllers, servo and stepper drive and drive/controllers, and servo motors.

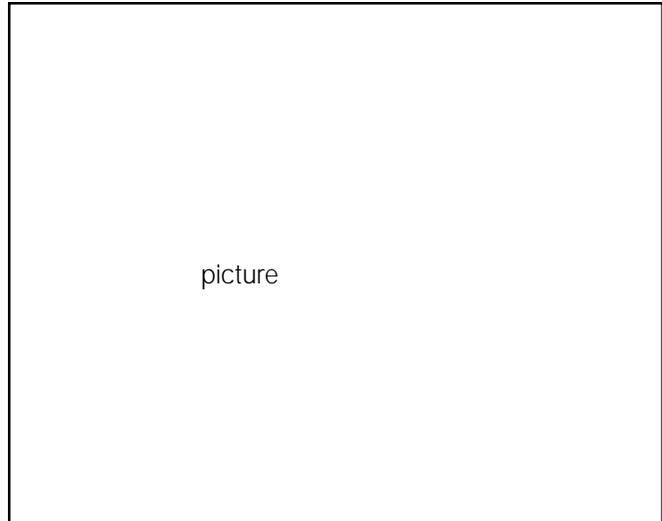
Parker's solution provides the "perfect fit" for End Users, Machine Builders, OEMs and System Integrators alike. Select the Parker solution for your next automation application and you'll soon discover the strength of Parker's Automation Group.

Leading Systems Integrator Finds Success with Automation Group

"... The system we designed and built was a total Parker solution."

Hughes Automation has designed a system which fully uses not only products from Compumotor, but also products from other Parker divisions comprising the Automation Group. Built for a large motor manufacturer, the application involved taking an engine rocker cover and dispensing sealant using an XYZ positioner.

A Compumotor 6K4 Controller, along with CompuCAM software, was used for the motion control dispensing unit. The drive systems included three Compumotor TQ10-EHS drives coupled with SM brushless servo motors. Positioning tables, 406XR and 404XR, from Parker Daedal were incorporated into the system as well. Parker CTC's P2 HMI interfaces rounded out the system. In trying to keep the system a full Parker solution, Hughes Automation used ParFRAME from Parker



picture

AAD as the structural guarding and framing of the system.

As a leading Systems Integrator in the Southeast, Hughes continues to look for innovative control packages to use in their systems. The new Parker Compumotor 6K4 Controller provided the company all the functionality it needed.

The new Parker Compumotor 6K4 Controller provided the company all the functionality it needed. According to Matt Haddad, mechanical systems engineer with Hughes's Custom Machine Group, "The 6K4 allowed us to create complex pre-compiled move profiles for our X-Y-Z dispensing system. The soft operating system (6000 Series Command Language) made the programming the controller and interfacing it with a Parker CTC display very user friendly. Plus, the 6K4 small package size made it extremely modular, and it easily mounted inside the control cabinet on DIN rail. In fact, the system we designed and built was a total Parker Solution."

The application requires that an operator manually place a rocker lever cover into the system. Once the cover is in position, the operator starts the machine cycle by engaging an opto-touch switch. A CAD drawing of the rocker lever cover is converted to 6K motion commands using CompuCAM software. The 6K controls two axes of motor-driven positioning tables to accurately dispense a sealant on the edge of the rocker lever cover. At the end of the cycle, the dispensing head returns to a home position.

Once the cycle is complete, the operator manually removes the rocker lever cover and installs it on the engine in production. The operator has completed control over all system diagnostics, as well as other variable changes, through the system's CTC panel. Because the dispensing system offers the manufacturer the ability to automate its capabilities, and because the machine was delivered on time to the customer, work is now under way for the delivery of similar dispensing machines to other divisions within the motor manufacturer.